DOUBLE CROPS AND HOW TO RAISE THEM



Vegetables From a Southern Garden Exhibited at a State Fair.

needed.

oats stubble.

Usually, the millet may be mown

and stacked early in September and

The wheat or rye fields may be

utilized in the same manner, and be-

ing somewhat earlier, is better adapt-

ed to growing double crops than the

The potato patch may be made to

let, cane or kaffir corn after it has

been laid by. Sowing the ground to

beneficial influence of keeping down

the weed pests which always bob up

ing to drain the soil of its fertility.

Or if one will dig the potatoes from

the early patch they will bring a high

price at that season and the ground

may be sown to rape for hog pasture.

tween the rows of early potatoes after

Late tomatoes, cabbages and tur-

potato vines as successfully as though

they occupied the plot by themselves.

ness is One of Main Things in

Securing Top Price.

Cleanliness is one of the main things

der sanitary conditions, and that all

vtensils coming in contact with milk,

cream and butter are scrupilously

clean. As to churns, the barrel churn

is easily kept clean and is as good as

any. The churn should be thorough-

ly scalded and then cooled before the

cream is put in. Fill only about one-

third full as the butter will come in

better shape than if more is put in. The

cream should be thoroughly ripened.

cooled to the proper temperature, and

the butter thoroughly washed, worked

and salted. The best way to prepare

for market is to put the butter up in

pound prints, using parafine paper

wrappers on which is printed the

maker's name or the name of the

firm. If first-class butter is made and

properly packed and marketed there

is no reason why every dairy farmer

should not receive the top creamery

KOHL-RABI IS LITTLE KNOWN

Plant Is Much Used in Europe and Its

Recognized Here.

Considering all its qualities, it

seems strange that kohl-rabi is so

a sort of turnip-rooted cabbage, which

forms a large ball on the surface of

the stem; it is the part that is used

Kohl-rabi is much used in Europe

and its merits are slowly becoming

ferent in flavor, it may be used in

place of the turnip, and, in sections

where the turnip does not succeed, it

KEEP CLOSE WATCH ON HENS

quiring Attention-Look Carefully

for Mites and Lice.

Watch the hen as much as possi-

ble, because frequently things happen

fully for lice and mites,

Merits Are Slowly Becoming

butter prices.

they had been laid by.

We have seen fine corn growing be-

(By M. COVERDELL.) While two crops a season on a piece of ground will bring double profit, the field hurriedly cultivated and sown there is, of course, a corresponding to rye, which will make excellent fall double amount of vitality sapped from pasturage at a time when it is most the soil and the frequent application of a good fertilizer is imperative, lest the ground soon become thin and un-

productive. In the garden one may utilize for second and even third crops the beds in which early peas, beans, radishes and lettuce were grown.

The same is true of the early sweet corn. It is advisable not to plant the same article twice in the same spot in some other product also wields the succession, but rotate the products, the same as in field rotation of crops.

A well-prepared seedbed at each after you stop plowing the potato planting is almost essential, and a vines and which, where unmolested, sprinkling of fine, rich manure will furnish millions of seeds for propaprove very beneficial to the growing gating a rank and troublesome growth plants and in maintaining soil fertil- of weeds the next season, beside help-

Sow oats as early as possible, mow them for just a few days in advance of the time they would be reaped for the grain; remove them from the field as soon as they are sufficiently cured and stack well for future feeding purposes.

Then put as many teams in the field as can be spared. Stir the ground nips also may be raised among the quickly and thoroughly, immediately sowing it to millet.

TO DESTROY BOLL WEEVILS MAKING BUTTER FOR MARKET

Device Arranged to Knock Insects Off Important to Remember That Cleanif Cotton Plants and Are Killed by Polsonous Fluid.

This device is intended mainly for destroying the boll weevils that infest to remember in making butter to cotton plants. Each hood is provided bring the best prices. It is assumed with an opening at front and rear and at the outset that milk from which with a slotted bottom, so that the bolls butter is made has been produced un-



Boll-Weevil Destroyer.

traverse the interior of the hood. The weevils are knocked off the bolls by flaps inside the hood and fall into oil or other destructive liquid carried in recepticals at the bottom of the hood. -Popular Mechanics.

STOCK, LEGUMES AND COTTON

Best Results Obtained When Combination is Practiced-Rightly Called Good Farming.

The Progressive Farmer has never. for the average southern farmer, taken any stock for the agitation for live stock as a substitute for cotton, and we are glad to see the fact is coming more and more to be recognized that live stock should have a place on ev- little known. It has been likened to ery farm, but seldom if ever can live stock farming exclusively be made the most profitable. Just as all-cotton | the ground. But to be exact, the ball farming is a badly balanced, unprofit- is not a root, but an enlargement of able business, so is it unsafe and certainly not conductive to the maximum for food. possible profits to attempt to raise live stock exclusively. The best results are to come only when live stock, recognized here. Although quite diflegumes, grain and cotton are so combined that all food and feed for man and beast are produced and soil fertility is maintained. This and this will usually be found that the kohlalone can rightly be called good farm- rabi grows on in spite of heat. ing and good farm management.-Progressive Farmer.

NUMBER OF EGGS DECREASED Frequently Something Happens Re-

Laying Hen Will Not Keep Up Laying If Unprotected From Sun-Other Fowls Also Suffer.

Improper protection from sun and that require attention. As soon as heat causes the laying hens to drop chicks are all hatched, dry and liveoff in the number of eggs. The old ly, grease them on head and neck with birds of every kind suffer if not prop- common lard. This kills the lice that erly protected by shade. Orchard and may be upon them. Repeat this about forest trees furnish expellent protec once a week. Watch your chicks care

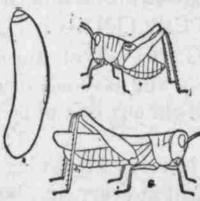
FACTS ABOUT INSECTS

Farmer Should Learn History of Different Pests.

Necessary to Know Something of Habits, Enemies, and Remedies in Mak-Ing Successful Fight-Grasshopper Most Injurious.

(By Z. P. METCALF.) In order that the farmer may suctessfully combat the different insects which injure his crops, it is necessary to know something regarding insects in general, their life-histories, habita, enemies, and the remedies that may be used against them successfully.

Briefly, insects may be divided into two classes. One develops from the egg to the adult without any resting stage. Insects belonging to this class are said to have an incomplete change of form. The other class has a resting stage in its life-history, and insects belonging to this class are said to have a complete change of form. In incomplete change of form there are three stages in the life cycle of the insects. First, the egg, which is laid by the adult and from which an active, dwarf stock so that the trees are likeusually rapid-growing "nymph" is hatched. This "nymph" is wingless, and from it, without any intermediate resting stage, the winged adults de-



double its profits by sowing it to mil- Life-History of Grasshopper-A, Egg: B, Nymph; C. Adult.

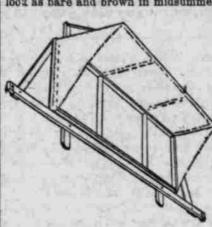
velop. Grasshoppers may be taken as an illustration of insects of this class. The wingless young are familiar objects to everyone. It is this stage of insects with incomplete change of form that are known as "nymphs."

Insects belonging to the second class have four stages in their life-history. Eggs laid by the adults develop into larvae, or worms, as they are commonly known. Hornworms may be taken as an example of this stage in the development of insects of this class. The larvae is the active growing period. and is followed by a resting period which is known, technically, as the after a length of time, the adult emerges.

It is necessary for the farmer to know the details, the life-history, of the insect he is trying to conquer in order that he may fight it intelligently. Many insects are practically uncontrollable except for a very brief period or a short stage in their life- Short pieces of hay, straw, pine history.

Take, for instance, the grasshopper. Of all the insect pests which are found in some sections of the West, this is the most destructive, for there it injures the most important industries-agriculture and stock-raisingby invading the alfalfa fields.

They usually do the greatest damage to the second crop of alfalfa, for though they hatch in spring from eggs laid the previous autumn, the young hoppers do very little apparent injury to the first crop. As soon as it is cut, however, they are deprived of their abundant supply of green food. The few leaves remaining are quickly destroyed, and with them every opening bud and newly formed leaf. The second crop cannot make a start for the new growth is eaten as fast as it appears. The injured fields sometimes lock as bare and brown in midsummer



Successful Type of Horse-Drawn Hopperdozer.

as they are early in spring. In many cases this means the loss of many

thousands of dollars' worth of hay. In some states very little has been done toward preventing this loss; but in Minnesota and Nebraska grasshoppers are fought systematically with

considerable success. Grasshoppers in alfalfa fields may be held in check in ordinary years by plowing late in the fall the waste lands where they breed and by disk-harrowing badly infested fields, thus destroying the eggs in the soil.

SEPARATE COOP FOR CHICKS

When Youngsters Stray Into Wrong Pen They Are Likely to Be Killed or Malmed.

Never place a hen with a brood of chicks of a certain color or colors close to a hen with a brood of chicks including other colors, because if the youngsters stray into the wrong coop by the hen.

Come Into Bearing Somewhat Earlier Than on Standard Stocks, Says New York Station.

Apple trees propagated on dwarf stocks come into bearing somewhat earlier than on standard stocks. This is the experience of a ten years' study by the New York station. The French paradise stock is somewhat subject to winter-killing. In fact, the injury and loss from this cause was so heavy that conclusions from the experiments cannot be drawn at this time.

There is considerable confusion in the trade between the doucin and the French paradise stocks. The paradise stocks grown by English nurserymen are similar to the doucin stocks grown across the channel.

The growth of the dwarf tree is largely individual. Many varieties throw out roots from the cions, if the union between the stock and the cion is set below the surface of the ground. This makes it necessary to remove the cion roots, otherwise one will get standard or semi-dwarf trees. Then the suckering habit of the dwarf stocks must be contended with.

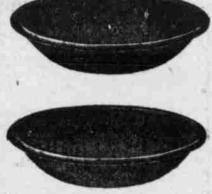
A further disadvantage is the relative shallow rooting system of the ly to be blown over in exposed situations or where high winds prevail. Although these dwarf trees came into commercial bearing somewhat earlier than standards the tests have not yet shown that they are more profitable. The station authorities believe that the dwarf trees are likely to be more valuable to amateur than to commercial growers.

WOODEN NESTS FOR PIGEONS

May Be Secured to Board Slightly Larger Than Pan or Set Directly in the Nest Box.

Some pigeon breeders use nest pans made of wood, wood fiber or earthenware from 3 to 4 inches deep, and 8 to 10 inches in diameter, which may be secured to a board slightly larger than the nest pan or set directly in it has been shown that trees better the the nest box, if it is of heavy mate-

Some breeders claim that earthenware nests are too cold in winter. Some do without pans by putting a 3-inch strip on the front of the nest to retain the nesting material.



Wood-Fiber Nest Boxes,

needles and tobacco stems are used for nesting material. This is kept in an open crate or in a corner of the house where pigeons select and build their own nests.

DRINKING WATER FOR FOWLS

Insanitary Condition Remedied by Use of Old Cheese Box-Good Arrangement for Chicks.

When you go out to supply your fowls with fresh drinking water, is the vessel full of dirt or litter? This insanitary condition used to bother us a lot, even though we used poultry drinking fountains, says a writer in an exchange.

A good remedy follows: Procure an old cheese box and split off the bottom half of it around the sides, then put the fowls' drinking vessel on top of this. It will not take long for you to note a difference in regard to cleanli-

ness. For small chicks another plan has proved excellent. Fill a basin level full of pebbles slightly smaller than hon's eggs; then sink the basin in the ground, leaving the rim an inch above the surface, and fill with water. The chicks run all over this, yet they cannot push one another into the water and drown, and scarcely being able to get their feathers wet. They drink between the pebbles. The pans are easily cleaned, and the pebbles help keep the water cool for several hours in the summer and warm in the winter.

NUMBER OF EGGS UNDER HEN

In Natural Season Fowl Can Comfortably Cover Fifteen-Much Depends on Time of Year.

The number of eggs to be placed under a hen depends on her size and the season of the year. The usual number a medium-sized hen can comfortably cover in the natural season is 15. During very warm weather this hen perhaps could cover 17 eggs. If possible set two hens at the same time and give all chicks hatched to one hen.

CHOICE BERRIES FOR MARKET

Important Point is to Get All Ripe Fruit-Overlooked Berries Ripen Very Quickly.

The important point in picking strawberries, and other berries, too, for that matter, is to get all the ripe fruit that is ready for market every they are likely to be killed or maimed | day, as overlooked herries are usually everyipe by the following day.

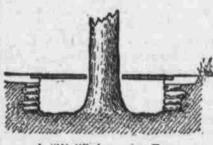
DWARF APPLE TREE STOCKS PLANT BETTER TREES WHOLE COW'S MILK IS BEST

Will Make the Home More Attractive All the Year.

Add to Healthfulness by Cooling and Purifying Air-Leaves Absorb Impure and Hurtful Gases-Prevent Injuries.

(By A. MURRIL.) The people of this country are developing a finer sense for the beautiful, which finds expression in various activities. These efforts have developed a higher appreciation of beauty and art in the home and with this love of better homes comes the demand for more and better trees, which will make the home more attractive all the year.

Trees add to the healthfulness by cooling and purifying the air. Besides cutting off the direct and reflected rays of the sun, foliage, by evaporating large quantities of water from its surface, exercises a marked effect on the temperature. The reduction of the temperature in this way is greatest on dry, hot days when such reduction is most needed. Leaves also absorb impure and hurtful gases and manufacture the oxygen needed by humans for respiration. Circulation



A "Well" Around a Tree.

of the air, due to unequal temperature, humid by the removal of surplus water | with the chain and hooks. The fence from the surrounding soil and through the medium of roots and foliage. Thus health conditions. A homestead barren of trees and shrubs does not appeal to the occasional visitor, nor does it influence the family which dwells thereon as it would if the home yard had been adorned with trees, beautiful in form and color, which inspire a constant appreciation of nature.

The trees on city streets suffer most often because of a naturally poor soil and a lack of sufficient water supply. City streets that are macadamized, paved or concreted present a surface layer that shuts off almost completely is tightened by means of the twothe natural means by which water may handled wrench.-Wisconsin Agriculreach the roots, and directs all of the turist, surface drainage into catch-basins and sewers. Thus, trees on such streets are subjected to the extreme of adverse conditions, and their natural vitality and soil adaptation must be such that they can withstand the abnormal strain on their vitality or they are certain to meet with an unnatural and premature death.

Along city streets, where conditions are so often unfavorable to tree growth, the holes for newly planted trees should be filled with loamy soil, and they should be large enough to provide for future root development. A bed 4 feet wide by 8 feet long and 2 feet deep is none too large. In streets which are often congested with people it may not be feasible to leave such a large open space for each tree. In such cases an iron grating can be placed over the area that is not paved. This will prevent the soil from becoming impenetrable to surface water.

Literature on the subject of shadetree protection will be of the most value when it serves as a means for preventing rather than curing injuries. By far the greater part of the injuries from which trees suffer can be pre-



Grating to Cover "Well."

vented. When once inflicted, however, it is often very difficult or even impossible to remedy them adequately. In many cases the existing laws are quite sufficient to give all the protec- and Home. The bottle or mason jar is tion desired. The people should know set on an inverted perforated piepan, the laws, and have interest enough in placed in the bottom of a kettle or the preservation of trees to insist that pall. This holds the milk container they shall be obeyed. The most suc- away from direct contact with the cessful plan for large towns seems to bottom of the kettle and avoids danbe to place the care of street trees di- ger of breakage. A dairy thermometer rectly in charge of a commission or is essential to success. park board empowered by special oralso he adopted in smaller communities with such changes as are necessary to suit local conditions.

MARKETING PEACH AT PROFIT

Riggest Problem in Fruit Business-Considerable Money Must Be Invested in Labor.

Marketing the peach at a profit is the biggest problem in the business. After considering all of the necessary operations in a commercial peach orchard it is apparent that considerable money must be invested in labor. That money is tied up in the crop

Calves Raised on Skim Milk Are Usually Runty, Pot-Bellied and Suffer Indigestion.

Calves raised on skim milk are usually runty, pot-bellied, and suffer indigestion. Whole cow's milk is a perfect feed for the calf, but skim milk is not. When the fat is removed a substitute is sometimes made by adding a handful of flaxseed meal or cornmeal, but this sort of fat is not a full substitute for butterfat.

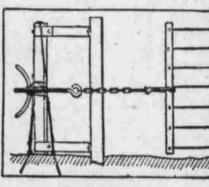
It is still a debatable question whether it pays in the long run to rob the future cow by stunting the calf for the sake of immediate profits. The practice of taking the calf immediately away from the cow is the usual thing in the dairies and, assuming that it is an economical thing to do, the question is how to feed calves on artificial food and keep them growing properly.

During the first few weeks the calf is not capable of digesting normally any food save whole cow's milk. If he must subsist on skim milk, a little flaxseed meal or cornmeal had. better be added to the ration. The milk should always be given warm and never when it is frothy. Calves should never be given enough skim milk to entirely satisfy their hunger. If indigestion develops they should be kept on short rations for a day or two. If scours devélop a little formalin added to the milk, combined with a restricted diet, will usually control it within a few days.

STRETCHER FOR WIRE FENCE

Upright Standard, Braced From Post, Carries Long Threaded Bolt Connected With Chain.

With the device shown in the illustration woven-wire fences are is likewise promoted by trees properly stretched from the last post. An uppruned and arranged; while the air of right standard, braced from this post, basements and cellars is rendered less carries a long threaded bolt connected



Fence Stretcher.

is stretched when the nut at the end

ATTENTION TO WORK HORSES

Poor Teeth Will Cause Indigestion, and III-Fitting Collars Produce Shoulder Galls.

The teeth and the shoulders of the work horses have to be watched. If the teeth aren't in good shape the food won't be chewed properly. This will result in indigestion, and the animal will soon be in poor condition. Filing away the sharp corners of the teeth will many times correct the trouble.

Ill-fitting and sweat-covered collars will cause shoulder galls. A collar should fit snug against the shoulder. with room enough at the bottom to insert the open hand. Many persons use two sets of collars when the spring work first opens. One set is larger than the other, and is used before the horses have been worked down any; the other after the surplus fat has been worked off and the horses' necks are in working condition. This lessens shoulder trouble.

To treat shoulder galls use a salve made of zinc oxide. It should be applied at night or when the horses are not being worked.

HOW MILK IS PASTEURIZED

Bottle or Mason Jar Is Set on Inverted Pan and Placed in Bottom of Kettle or Pall.

Milk can be pasteurized at home in bottles or in mason jars, says Farm

The vessel is filled with water up to dinances to carry cut its plans. This the neck of the bottle or nearly to the gives opportunity for a systematic de- top of the jar or other milk receptacle velopment of tree culture throughout and the water heated to 150 degrees. the entire community and makes it The heat is then discontinued. Cover possible to employ experts to direct the kettle with a cloth to retain the the work. Similar arrangements can heat as much as possible and let it stand for half an hour.

At ordinary kitchen temperatures the water will not lose more than five degrees of heat in half an hour. At the end of this time cool the milk rapidly. seal the receptacles if the product is to be kept very long and you may feel reasonably sure of a safe food.

ADJUSTMENT OF THE BRIDLE

Should Be Arranged to Bring Blinds Opposite Eyes-Bit Rests on Bars of the Mouth.

Bridles should be adjusted to bring the blinds (if they are used) opposite until marketing time and a large crop the eyes, and the bit should rest upon often means a large labor expense the bars of the mouth (directly oppoand a small price per bushel for the site the slight depression in the lower jaw, in which the curb chain bears).